	Application No.	Applicant(s)
Notice of Allowability	Application No.	Applicant(s)
	10/771,787	ITO, TAKESHI
	Examiner	Art Unit
	Suezu Ellis	2878
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 12/28/05</u> .		
2. X The allowed claim(s) is/are 4-7,9-12,14-18,20-22,24-26,33,34,38.		
 3.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 		
Attachment(s) 1. Notice of References Cited (PTO-892)	5 Notice of Informal P	Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da 98), 7. ⊠ Examiner's Amendr	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Thomas Spinelli (Reg. No. 39,533) on January 10, 2006.

The application has been amended as follows:

In claim 14, line 1, replace "claim 13" with "claim 12".

The following is an examiner's statement of reasons for allowance:

With respect to claim 4, prior art fails to teach or reasonably suggest the values of z1 and z2 being substantially equal to each other, in addition to the other limitations of the claim.

With respect to claims 5 and 20, prior art fails to teach or reasonably suggest an optical encoder comprising a light beam exit opening disposed in the scale moving direction at a position of $(z1 + z2) / z2 \times m$, where m is a natural number, in addition to the other limitations of the claims.

With respect to claim 26, prior art fails to teach or reasonably suggest a method of adjusting a level of an output signal depending on a period p2 of a light intensity pattern formed on a receiving surface of a light detector, wherein the method comprising a step of determining whether or not the level of the output signal is included in a

predetermined range and when the level of the output signal is not included in the predetermined range, a distance from the optical element to the scale is changed.

With respect to claim 33, prior art fails to teach or reasonably suggest an optical encoder comprising a lens which sets a beam divergent angle of the light beam to a predetermined value, wherein the lens is a cylindrical lens having a focusing action only in the scale moving direction, in addition to the other limitations of the claim.

With respect to claim 38, prior art fails to teach or reasonably suggest a method of adjusting a level of an output signal depending on a period p2 of a light intensity pattern formed on a receiving surface of a light detector, wherein the method comprising a step of determining whether or not the level of the output signal is included in a predetermined range and when the level of the output signal is not included in the predetermined range, a distance from a calculated position of a virtual spot light source to a scale is changed, in addition to the other limitations of the claim.

Claims not specifically addressed would be allowable due to their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2878

Telephone/Fax Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Suezu Ellis whose telephone number is (571) 272-2868. The examiner can normally be reached on 8:30am-5pm (Monday-Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).